

## **Overview:**

GAORFID 236042 is a high performance 8-Ports UHF Gen 2 RFID reader and writer which can be well adapted to the installation requirements for indoor or outdoor environments. 236042 is developed based on the Impinj's INDY R2000 core chip reader module.



## **Key Features**

- ✓ High performance anti-collision algorithm
- ✓ Optimized algorithm for a little of tags:
  - Better tag response time
  - Optimized for small tag quantity applications
- ✓ Dual CPU architecture:
  - Main CPU is responsible for tag inventory, assistant CPU is responsible for data management
  - Inventory and data transfer are parallel and simultaneous. This feature improves the total

- performance significantly
- Assistant CPU is responsible for generating real random number and for system operating surveillance
  - ✓ Fast 8 antenna switch inventory
  - ✓ Low power consumption
    - Maximum out power only needs 1.3A +/-10% (12V DC Input)
    - Low-power Mode, single tag only 300mA +/-10% (12V DC Input)
  - ✓ 18000-6B/C fully compatible

### Technical Specifications

Dimension	230mm(L) x 160mm(W) x 28mm(H)
Weight	1.8 Kg
Body Material	Die-cast aluminum
Input Voltage	DC 12V ~ 18V
Standby Mode Current	<30mA
Sleep Mode Current	<100uA
Max Operating Current	600mA +/-5% @ DC 12V Input
Operating Temperature	- 20 °C ~ + 55 °C
Storage Temperature	- 20 °C ~ + 85 °C
Humidity	< 95% ( + 25 °C)
Interface Protocol	EPC global UHF Class 1 Gen 2 / ISO 18000-6C / ISO 18000-6B
Spectrum Range	860MHz – 960MHz
Supported Regions	US, Canada and other regions following U.S. FCC Europe and other regions following ETSI EN 302 208 Mainland China, Taiwan, Japan, Korea, Malaysia
Output Power	0 - 33dBm
RF Connector	TNC/RP-TNC
Output Power Precision	+/- 1dB
Output Power Flatness	+/- 0.2dB

Receive Sensitivity	< -85 dBm
Peak Inventory Speed	>700 tags/sec
Tag Buffer Capacity	1000 tags @ 96 bit EPC
Tag RSSI	Supported
Antenna Detector	Supported
Ambient Temp Monitor	Supported
Working Mode	Single/DRM
Host Communication	RS-232 or TCP/IP
GPIO	2 input optical coupling & 2 output coupling
Max Baud Rate	115200 bps
Heat Dissipation	Air cooling



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